

PATENT ABSTRACTS OF JAPAN

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(54) OPTICAL RECORDING AND REPRODUCING DEVICE

(57)Abstract:

PURPOSE: To realize a high recording density by recording at the recording pitch of $1/2 - 1/4$ of a recording wavelength by the magnetic field modulation for recording and reproducing photomagnetically with the use of a light source having the wavelength of about $1/2$ of a recording light source for reproducing.

CONSTITUTION: A recording optical head 2 and reproducing optical head 3 are separately equipped and the information bit or domain of $1/2 - 1/4$ of the wavelength of the recording light source is recorded on a photomagnetic disk 5 by a magnetic field modulation method. For the reproduction of the information, a semiconductor laser same as that of the recording light source and secondary higher harmonics generating element are used and reading is performed by the light source of $1/2$ of the wavelength of the recording light source. Consequently, a recording density becomes more than two times compared with the case of recording and reproducing with the recording light source and a high density recording can be performed.



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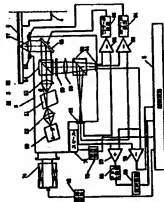
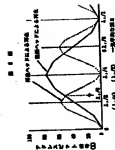
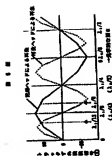
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